(SN-81815) Feb. 28, 1961

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index only

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Codes

SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER,
start NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GREENBELT, MARYLAND
Md.

Volume 1, No. 2 (SATELLITE SITUATION REPORT) February 28, 1961

The following report reflects data computed and compiled by Goddard Space Flight Center, NORAD, and the Smithsonian Astrophysical Observatory as of 1200Z on February 28, 1961.

NOTE: The elements given in this report for 1961 GAMMA I were computed using positions of the probe periodically issued by the U. S. S. R.

Harry E. Carpenter, Jr.

HARRY E. CARPENTER, JR. Feb. 28, 1961
Head, Operations Control Branch

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OBJECTS IN ORBIT

OBJECT	CODE NAME	SOURCE	LAUNCH	PERIOD	INCLI-NATION	APOGEE	PERIGEE	TRANSMITTING FREQ. (MC/S)
1958 ALPHA	EXPLORER I	US	1 FEB 58	106.8	33.22	1128	220	
1958 BETA 1	ROCKET BODY	US	17 MAR 58	138.3	34.25	2686	406	
1958 BETA 2	VANGUARD I	US	17 MAR 58	133.8	34.24	2441	407	108.022
1959 ALPHA 1	VANGUARD II	US	17 FEB 59	125.3	32.88	2050	343	
1959 ALPHA 2	ROCKET BODY	US	17 FEB 59	129.5	32.95	2269	348	
1959 DELTA	EXPLORER VI	US	7 AUG 59	POSITION UNCERTAIN				
1959 ETA	VANGUARD III	US	18 SEP 59	129.7	33.34	2312	316	
1959 IOTA 1	EXPLORER VII	US	13 OCT 59	101.1	50.31	670	344	19.9904
1959 IOTA 2	ROCKET BODY	US	13 OCT 59	101.0	50.30	663	342	
1960 ALPHA*	PIONEER V	US	11 MAR 60	311.6D	3.35	.9931AU	.8061AU	
1960 BETA 1	ROCKET BODY	US	1 APR 60	99.1	48.41	465	429	
1960 BETA 2	TIROS I	US	1 APR 60	99.1	48.39	467	429	107.997
1960 GAMMA 1	ROCKET BODY	US	13 APR 60	92.5	51.26	318	179	
1960 GAMMA 2	TRANSIT 1B	US	13 APR 60	95.1	51.28	426	229	
1960 EPSILON 1	SPUTNIK IV	USSR	15 MAY 60	93.0	65.02	348	175	
1960 EPSILON 3	NONE	USSR	15 MAY 60	93.6	64.89	386	172	
1960 EPSILON 4	NONE	USSR	15 MAY 60	93.0	64.89	347	176	
1960 ZETA 1	MIDAS II	US	24 MAY 60	94.3	33.00	315	297	
1960 ETA 1	TRANSIT 2A	US	22 JUN 60	101.6	66.77	650	389	54;162;216;324
1960 ETA 2	GREB	US	22 JUN 60	101.6	66.77	658	381	108.0
1960 ETA 3	ROCKET BODY	US	22 JUN 60	101.4	66.77	642	383	
1960 IOTA 1	ECHO I	US	12 AUG 60	117.1	47.26	1280	650	107.935
1960 IOTA 2	ROCKET BODY	US	12 AUG 60	118.0	47.22	1049	932	
1960 IOTA 3	METAL OBJECT	US	12 AUG 60	118.2	47.20	1050	941	
1960 IOTA 4	METAL OBJECT	US	12 AUG 60	118.2	47.37	1044	950	
1960 IOTA 5	METAL OBJECT	US	12 AUG 60	118.4	47.20	1062	940	
1960 NU 1	COURIER 1B	US	4 OCT 60	106.8	28.30	750	604	107.97

OBJECTS IN ORBIT (CONT.)

OBJECT	CODE NAME	SOURCE	LAUNCH	PERIOD	INCLI-NATION	APOGEE	PERIGEE	TRANSMITTING FREQ. (MC/S)
1960 NU 2	ROCKET BODY	US	4 OCT 60	106.4	28.30	749	578	
1960 XI 1	EXPLORER VIII	US	3 NOV 60	112.6	49.98	1373	304	
1960 XI 2	ROCKET BODY	US	3 NOV 60	112.5	49.98	1413	259	
1960 XI 3	NONE	US	3 NOV 60					
1960 PI 1	TIROS II	US	23 NOV 60	98.2	48.57	463	378	108.0
1960 PI 2	ROCKET BODY	US	23 NOV 60	98.1	48.57	458	378	
1960 PI 4	NONE	US	23 NOV 60					
1960 SIGMA	DISCOVERER XVIII	US	7 DEC 60	91.4	81.48	279	143	
1961 ALPHA	SAMOS II	US	31 JAN 61	95.0	97.40	344	295	
1961 BETA 3	NONE	USSR	4 FEB 61	89.5	64.89	169	141	
1961 GAMMA 1*	VENUS PROBE	USSR	12 FEB 61	300D	0.3	1.019AU	0.7183AU	922.8
1961 DELTA 1	EXPLORER IX	US	16 FEB 61	118.3	38.63	1605	395	
1961 DELTA 2	ROCKET BODY	US	16 FEB 61	118.4	38.63	1613	395	
1961 DELTA 3	NONE	US	16 FEB 61					
1961 DELTA 4	NONE	US	16 FEB 61					
1961 EPSILON	DISCOVERER XX	US	17 FEB 61	95.4	80.43	486	177	
1961 ZETA	DISCOVERER XXI	US	18 FEB 61	97.8	80.74	659	149	
1961 ETA 1	TRANSIT 3B & LOFTI	US	22 FEB 61	94.5	28.36	511	117	
1961 ETA 2	ROCKET BODY	US	22 FEB 61	96.2	28.36	623	106	

*APHELION, PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

Please add the following objects to decayed list:

OBJECT	CODE NAME	SOURCE	LAUNCH	DECAY
1961 BETA 1	SPUTNIK VII	USSR	4 FEB 61	26 FEB 61
1961 GAMMA 2	ROCKET BODY	USSR	12 FEB 61	18 FEB 61
1961 GAMMA 3	SPUTNIK VIII	USSR	12 FEB 61	25 FEB 61
1961 GAMMA 4	NONE	USSR	12 FEB 61	13-18 FEB 61

The lunar and space probes section remains unchanged.